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PLANTAE MESOAMERICANAE NOVAE. VIII.*

by Luis Diego Gómez P.
Museo Nacional, San José, Costa Rica

COSTARICA gen. nov. cucurbitacearum. Herbae graciles, scandentes, radice perennante. Ròlia 5-lobata, saepissime herbacea, petiolata, eglandulosa, supra glabrescens vel pauci pilis corniculatis, infra dense pilosa, pilis hyalinis. Cirrhi 2-3-fidis, rarius indivisi. Flores unisexuali. Flores masc. laxe corymbosi; calyx campanulatus, minute 5-lobus; corolla rotata, 5-partita, intus densissime glandulosa extus glaberrima. Stamina 5 in columna connata, antherae liberae, omnes 2-loculares, connectivo producto simplici. Nectaria nulla. Ovarii rudimentum corniculatum, minutissimum. Flores fem. capituli aggregati, longe pedunculati. Calyx campanulatus maris. Corolla reducta. Staminum rudimenta nectariaque nulla. Stylus columnatus, stigma 1, discoideus, carnosus. Ovarium fusiformis, 1-placentiferum. Fructus (samara est) monospermus, plano-alatus, sicco-papyraceo-inflatus, irregulariter lobatus, lobuli acuminatissimi apicibus hamatis. Semina fusiformia, fusca. Specie unica n. nota est:

Costarica hamata sp. nov. Planta herbacea, scandens. Ròlia 9-10 cm longa, 8-9 cm lata, 5-lobulata, petiolata (2.5-3 cm), supra subasperula, infra densissime pilosa. Cirrhi 10-12 cm, 3-fidi. Inflorescentia masc. longe pedunculata (6-7 cm) vix 20-florae, corymbosa. Flores masc. pedicellati (2-3 cm), calyx 5 mm diametro, 5-lobus, lobii 2-3 mm; corolla pallide flava, 5-partita, segmentis 4 mm longis, 2.5-3.5 mm latis, acutis, intus densissime piloso-glandulosis. Infloresc. fem. 15-22-florae, capitulata, flores quasi sessiles, pediceli capilari 1-3 mm; calyx campanulatus 3 mm diam., 5-dentatus, lobi 1.5-2 mm long.; corolla minuta, 5-partita. Stylus columnatus 3 mm longus, stigma orbiculare-discoideum 2.5 mm diam. obscure bilobatum, carnosum. Fructus 2 cm longus, 1.8-2 cm latus, planus, obscure 4-alatus, irregulariter lobatus, lobuli spinulosi, spinis hamatis. Semina 1, fusiformia, immarginata, 6-8 mm longa, 2.5-3 mm lata, fusca, amarissima.

Holotypus: Rio Yerbabuena, SW slopes of Vulcan Irazu, 2000 m, Prov. Cartago, L. D. Gómez 19993, CR. Isotypi: MO, US, F, BM, MEXU, K.

In the Cucurbitaceae three genera have winged, samara-like, 1-seeded fruit: *Pseudosicydium* Harms, *Cyclantheropsis* Harms and *Pterosicyos* Brandegee. The first two belong in the Tribe Cyclanthereae because the anther loculi are in some fashion and degree united and horizontally arranged into a ring and dehisce by a continuous slit.

*Partially financed by CONICIT.

Gunnera X katherine-wilsoni hybr. nov. (*G. insignis* Oerst. X *G. talamancana* Weber & Mora). hybrida e *G. insigne* et *G. talamancana exorta*, foliis pedato-lobulatis irregulariter pinnatisectis et aliis caracteribus inter parentes media.

Holotypus; Km 72 route 2, Prov. Cartago, L.D. Gomez 19722, CR, MO. Named in honor of Mrs. Katherine Wilson of Las Cruces Tropical Bot. Garden, who spotted the hybrid many years ago, in appreciation for all her endeavors on behalf of tropical horticulture.

Gunnera insignis Oerst. f. *albovariegata* nov. *G. insignis* affinis, a qua imprimis differt foliis albomaculatis.

Plants in habit and general characteristics closely resembling typical *G. insignis* Oerst. but the leaves at all stages of development have achlorophyllous areas between the main veins, extending from the petiole insertion to the margin, often with spotty concentrations of red pigment.

Holotypus: Km 104 route 2, Prov. San Jose, L.D. Gomez 19709, CR, MO.

The plants have been observed for the past decade for any variation of the maculae. The actual population of 17 clumps, totalling some 40 plants, is scattered in 4-5 km along or off the Interamerican Highway. The possibility of a viral discoloration is being investigated but so far has proven negative.

The name *G. pilosa* Kunth I am applying to a population that closely resembles that South American taxon. The population under study consists of 6 adult plants at km 100 Rt. 2, Prov. San Jose, L.D. Gomez 19710, CR, MO. and Palkovic, G.

NEW RECORDS

Bulbostylis vestita (Kunth) Clarke, in savanna 7 km NW of Bagaces, in Guanacaste. L. D. Gomez 18606, CR, MO, F.

Lemna valdiviana Philippi, in Quebrada Costa Rica, Sta. Rosa Nat. Park, Guanacaste. Jorge Gomez-L. 8955, CR, F.

Acisanthera limnobios (DC) Triana, vernal pond 12 km from Rt. 1, S of La Cruz, Guanacaste, J. Gomez-L., 9087; 9088, CR, F, MO.

Rotala mexicana Cham. & Schlecht., vernal pond 12 km from Rt. 1, S of La Cruz, Guanacaste, J. Gomez-L., 9136; 9137; 9138, CR, F, MO.